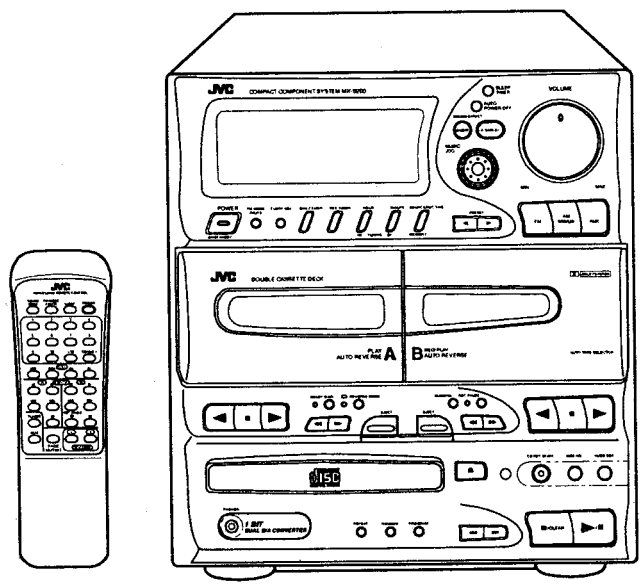
INSTRUCTIONS

CA-S200

COMPACT COMPONENT SYSTEM

BEDIENUNGSANLEITUNG: KOMPAKTKOMPONENTENANLAGE
MANUEL D'INSTRUCTIONS: CHAINE COMPACTE PAR ELEMENTS
GEBRUIKSAANWIJZING: COMPACT COMPONENTSYSTEEM
MANUAL DE INSTRUCCIONES: SISTEMA DE COMPONENTES COMPACTOS
ISTRUZIONI: SISTEMA DI COMPONENTI COMPATTO



COMPACT disc DIGITAL AUDIO

E30580-2192A
[C, EF, G, GI]

Warnings, Cautions and Others / Warnung, Achtung und sonstige Hinweise / Mises en garde, précautions et indications diverses /Waarschuwingen, voorzorgen en andere mededelingen / Avisos, precauciones y otras notas / Avvertenze e precauzioni da osservare

IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nontheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT:

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

This apparatus does connect with the mains line even when POWER is set to STANDBY. The power of the apparatus can be also controlled from the remote control unit. Disconnect the mains plug to shut the power off completely.

Dieses Gerät bleibt mit dem Stromnetz verbunden, auch wenn der Netzschalter (POWER) auf STANDBY steht. Dieses Gerät kann auch über Ferbedienung ein- und ausgeschltet werden. Um das Gerät aber vollständig vom Stromnetz zu trennen, muß der Stecker aus der Steckdose gezogen werden.

Cet appareil reste connecté à l'alimentation secteur même quand POWER est réglé sur STANDBY. L'alimentation de cet appareil peut aussi être contrôlée à partir de la télécommande. Déconnecter la prise d'alimentation pour mettre l'appareil complètement hors tension.

Zolang de stekker van het netsnoer in het stopkontakt steekt, blijft het apparaat onder spanning staan, zelfs als de POWER schakelaar op "STANDBY" staat. Dit apparaat kan ook in-en uitgeschakeld worden met de afstandsbediening. Als u het apparaat geheel spanningsvrij wilt hebben, trek de stekker van het netsnoer dan uit het stopkontakt.

Este aparato permanecerá conectado a la red de CA incluso aungue ponga POWER en STANDBY. La alimentación de este aparato también podrá controlarse con el controlador remoto. Para desconectar completamente la alimentación, desconecte el enchufe del cable de alimentación de CA.

Questo apparecchio rimane collegato alla rete di alimentazione anche se l'interruttore POWER viene regolato su STANDBY. L'alimentazione di questo aparecchio può essere controllata anche con il telecomando. Scollegare il cavo di alimentazione per spegnere completamente l'apparecchio.

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT
ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND

IMPORTANT FOR LASER PRODUCTS/ WICHTIGER HINWEIS FÜR LASER-PRODUKTE / IMPORTANT POUR LES PRODUITS LASER/BELANGRIJKE INFORMATIE VOOR LASERPRODUKTEN/IMPORTANTE PARA LOS PRODUCTOS LÁSER / IMPORTANTE PER I PRODOTTI LASER

REPRODUCTION OF LABELS/ANBRINGUNGSORTE FÜR LASER-PRODUKTE/REPRODUCTION DES ETIQUETTES/ VERKLARING VAN DE LABELS/REPRODUCCIÓN DE ETIQUETAS/RIPRODUZIONE DELLE ETICHETTE

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE

① KLASSIFIKATIONSETIKETTE AN DER RÜCKSEITE

① ETIQUETTE DE CLASSIFICATION, PLACÉE A L'ARRIÈRE DU COFFRET

① KLASSIFIKATIELABEL, OP DE ACHTERZIJDE VAN HET APPARAAT

① ETIQUETA DE CLASIFICACIÓN, PEGADA EN LA PARTE POSTERIOR DE LA CAJA

① ETICHETTA DI CLASSIFICAZIONE, SITUATA SUL RIVESTIMENTO POSTERIORE

② WARNING LABEL, PLACED INSIDE THE UNIT

② WARNETIKETTE IM GERÄTEINNEREN

② ETIQUETTE D'AVERTISSEMENT PLACÉE À L'INTERIEUR DE L'APPAREIL

② WAARSCHUWINGSLABEL, IN HET APPARAAT

② ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE LA UNIDAD

② ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO DELL'APPARECCHIO

(Except for Canada)
(KANADA ausgenommen)
Excepte Sauf le CANADA)
(niet bij de Canadese modellen bijgeleverd)
(Excepto por CANADA)
(Ecceto il CANADA)

CLASS 1
LASER PRODUCT

DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling (d)

VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

1. CLASS 1 LASER PRODUCT
2. **DANGER**: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

1. KLAS 1 LASERPRODUKT
2. **GEVAARLIJK**: Onzichtbare laserstraling wanneer open en de beveiliging faalt of uitgeschakeld is. Voorkom het direkt blootstaan aan de straal.
3. **VOORZICHTIG**: De bovenkap niet openen. Binnenin het toestel bevinden zich geen door de gebruiker te repareren onderdelen: laat onderhoud over aan bekwaam vakpersoneel.

1. LASER-PRODUKT DER KLASSE 1
2. **GEFAHR:** Unsichtbare Laserstrahlung bei Öffnung und fehlerhafter oder beschädigter Spre. Direkten Kontakt mit dem Strahl vermeiden!
3. **ACHTUNG:** Das Gehäuse nicht öffnen. Das Gerät enthält keinerlei Teile, die vom Benutzer gewartet werden können. Überlassen Sie Wartungsarbeiten bitte qualifizierten Kundendienst-Fachleuten.

1. PRODUCTO LASER CLASE 1
2. **PELIGRO**: En el interior hay radiación láser invisible. Evite el contacto directo con el haz.
3. **PRECAUCIÓN**: No abra la tapa superior. En el interior de la unidad no existen piezas reparables por el usuario; deje todo servicio técnico en manos de personal calificado.

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** Radiation laser invisible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
3. **ATTENTION:** Ne pas ouvrir le couvercle du dessus. Il n'y a aucune pièce utilisable à l'intérieur. Laisser à un personnel qualifié le soin de réparer votre appareil.

1. PRODOTTO LASER CLASSE 1
2. **PERICOLO:** Radiazione laser invisibile quando l'apparecchio è aperto ed il dispositivo di sicurezza è guasto o disattivato. Evitare l'esposizione diretta ai raggi.
3. **ATTENZIONE:** Non aprire il coperchio superiore. Non vi sono parti adoperabili dall'utente all'interno di questo apparecchio; lasciare tutti i controlli a personale qualificato.

CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

VOORZICHTIG
Ter vermindering van gevaar voor brand, elektrische schokken, enz.:
1. Verwijder geen schroeven, panelen of de behuizing.
2. Stel het toestel niet bloot aan regen of vocht.

ACHTUNG
Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw:
1. Keine Schrauben lösen oder Abdeckungen enlfernen und das Gehäuse nicht öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

PRECAUCIÓN
Para reducir riesgos de choques eléctricos, incendio, etc.:
1. No extraiga los tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

ATTENTION
Afin d'éviter tout risque d'électrocution, d'incendie, etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

ATTENZIONE
Per ridurre il rischio di shock elettrici, incendi, ecc...
1. Non togliete viti, coperchi o la scatola.
2. Non esponete l'apparecchio alla piogggia e all'umidità.

We would like to thank you for purchasing one of our JVC products.
Before connecting this unit to the wall outlet, please read the instructions carefully to ensure that you obtain the best possible performance.
If you have any questions, please consult your JVC dealer.

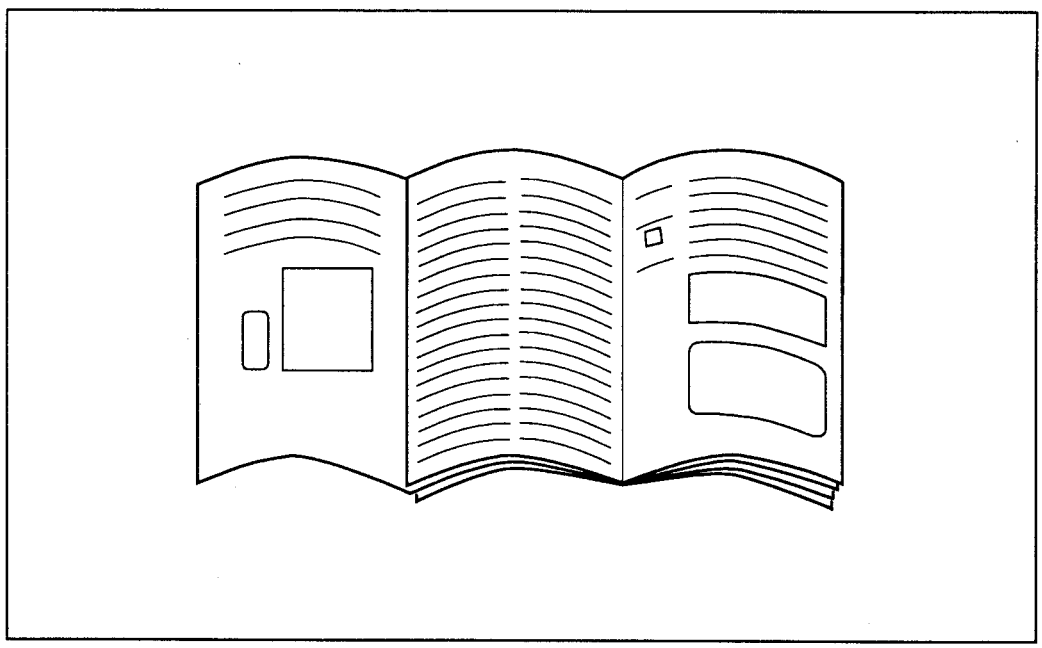
Vielen Dank für den Kauf dieses JVC-Produkts.
Bitte lesen Sie die Bedienungsanleitung sorgfältig durch, bevor Sie das Gerät an eine Netzsteckdose anschließen, um die bestmögliche Leistung des Gerätes zu erzielen.
Wenden Sie sich bei Fragen an Ihren JVC-Fachhändler.

Nous tenons tout d'abord à vous remercier d'avoir fait l'acquisition d'un appareil JVC.
Nous vous conseillons de lire ce mode d'emploi attentivement avant de brancher la fiche du cordon d'alimentation dans une prise secteur, cela de manière à obtenir les meilleures performances.
Pour toute question relative à cet appareil, veuillez consulter le revendeur JVC.

Dank u voor de aanschaf van dit JVC toestel.
Lees voor een optimale werking van het toestel deze gebruiksaanwijzing goed door alvorens de stekker van het toestel in een stopkontakt te steken.
Raadpleeg een JVC handelaar indien u vragen omtrent dit toestel heeft.

Quisiéramos darle las gracias por haber adquirido uno de nuestros productos JVC.
Antes de conectar este aparato a una toma de corriente, lea atentamente estas instrucciones para asegurar las mejores prestaciones posibles.
Si tiene alguna pregunta, no dude en consultar a su concesionario JVC.

Vi ringraziamo per aver scelto quest'unità JVC.
Prima di collegaria ad una presa di corrente, leggete per intero il presente manuale in modo da saperne sfruttare al massimo le caratteristiche.
Per qualsiasi domanda, consultate il negozio di acquisto dell'apparecchio.



Use this instruction book keeping this page open.

Die vorliegende Anleitung auf dieser Seite aufschlagen und offen bereitlegen.

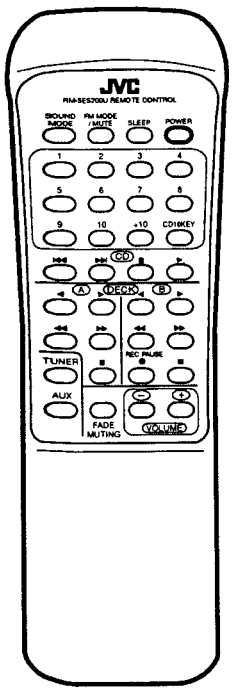
Utiliser ce manuel d'instructions en maintenant cette page ouverte.

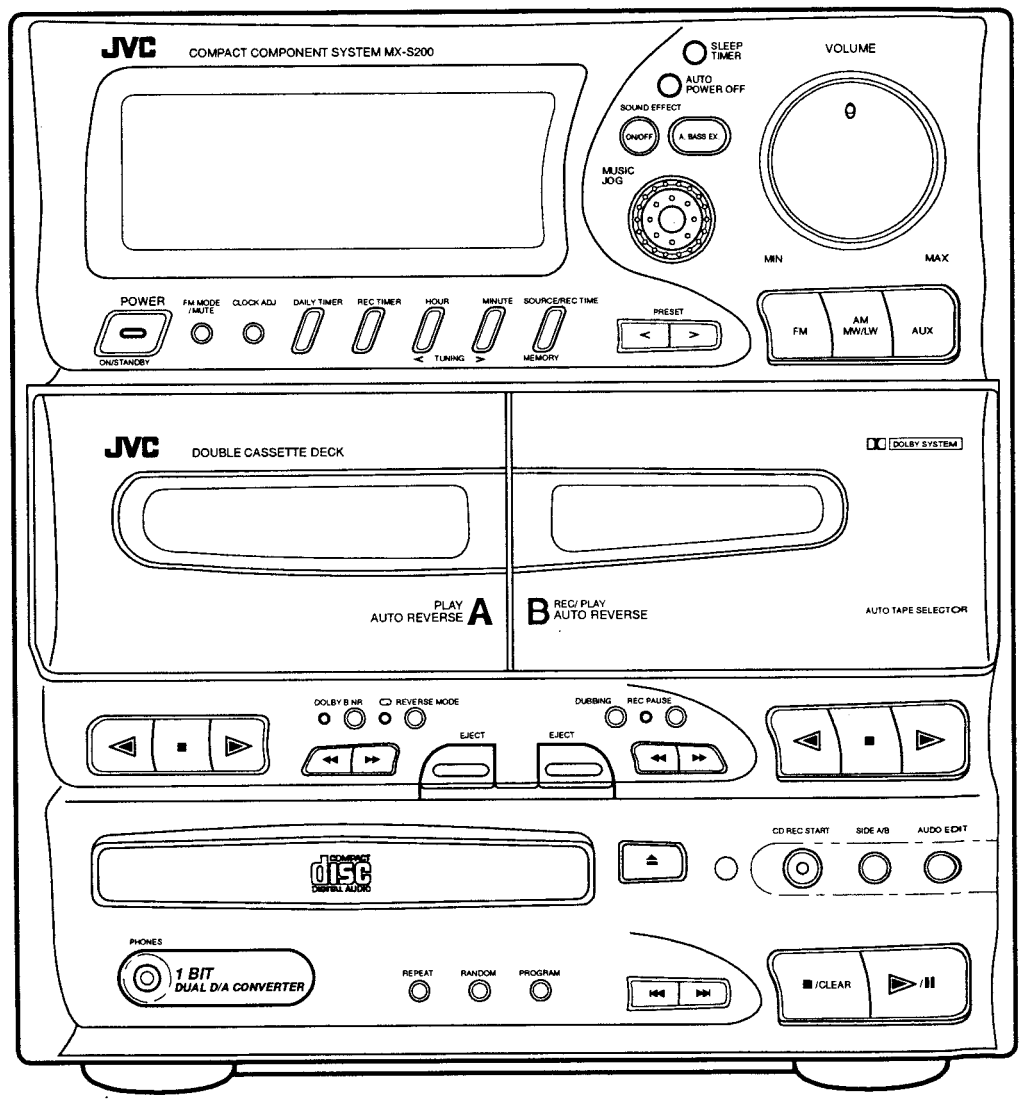
Klap deze bladzijde open bij het doorlezen van de gebruiksaanwijzing.

Utilice este manual de instrucciones, manteniendo esta pagina abierta.

Utilizzare il presente manuale di istruzioni tenendo questa pagina aperta.

Control Panel and Remote — Illustrations
Bedienfeld und Fernbedienung — Abbildungen
Panneau des commandes et télécommande — Illustrations
Bedieningspaneel en afstandsbediening — Afbeeldingen
Ilustraciones del panel de control y del mando a distancia
Pannello di controllo e telecomando — Illustrazioni





English

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Features

Great sound

Here are some of the things that make your CA-S200 powerful and easy to use.

❑ To get such **great sound** from such a compact package the CA-S200 has:

- Pre-programmed live surround effects like **D.CLUB, HALL, STADIUM,** as well as SEA effects like **ROCK, POPS, CLASSIC,** so you don't have to be a sound engineer to get great effects.

Easy operation

COMPU PLAY

❑ The controls and operations have been redesigned to make them very easy to use so you can spend your time listening to music.

- With the One Touch Operation feature of JVC's new **COMPUPLAY** you can turn on the CA-S200 and start the radio, the tape deck, or the CD player with a single touch.
- Four timers, **REC Timer, DAILY Timer, SLEEP Timer** and **AUTO POWER OFF** are extremely easy to set, so you can really use them.
- The **Display** is large and clear. It's organized so you can tell at a glance what's happening because functions light up as you use them, and blink to tell you they are ready. It gives you some important messages like "NO DISC," "NO TAPE" and some others.
- **Auto Edit** figures out how to arrange CD tracks on a tape. When you are recording a tape from a CD, the selections aren't cut off if the tape ends before the selection does.

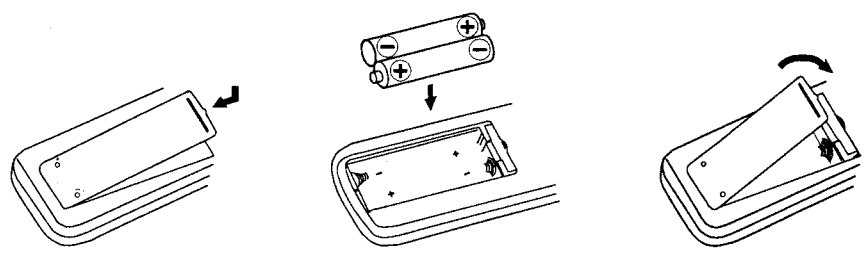
IMPORTANT CAUTIONS

1. **Installation of the Unit**
   - Select a place which is level, dry and neither too hot nor too cold (between 5°C and 35°C).
   - Leave sufficient distance between the Unit and your TV.
   - Do not use the Unit in a place subjected to vibrations.
2. **Power cord**
   - Do not handle the power cord with wet hands!
   - When unplugging from the wall outlet, always pull the plug, not the power cord.
3. **Malfunctions, etc.**
   - There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
   - Do not insert any metallic object into the Unit.

How to Put Batteries in the Remote Control

Match the polarity (+ and –) on the batteries with the + and – markings on the battery compartment.

R6P(SUM-3)/AA(15F)



CAUTIONS: Observe Proper Handling of Batteries.
To avoid battery leakage or explosion:

- If the range or effectiveness of the remote control decreases, replace the batteries.
- Remove batteries when the Remote will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Don't use an old battery together with a new one.
- Don't use different types of batteries together.
- Strong impact on the remote control may cause batteries to drop out of the battery compartment.

Read Me First

How to get the most for your money by using this manual.

The Engineers at JVC have made the CA-S200 very easy to use, and if you are experienced at using audio equipment, you can figure out how to use some of the CA-S200 controls by yourself. However, we have built some new features into this model, which you can learn about easily from the manual.

If you are a new user or just want a review, this manual explains how to use the CA-S200 and take advantage of its features for playing and recording music, as well as other sounds. One way to use this manual is to read it through now and refer back to it when you need to refresh your skills for some special operation. Of course you can just look up the topics, such as recording a CD, that you want to do, but remember that you may need to refer to other parts of the manual for some of the instruction: for instance, in explaining how to record a CD, we assume you already know how to load a CD. That's why we recommend that you read the manual through once before starting. We've made it short, and easy to follow.

However before you proceed, please read the Cautions on page 2 and the set-up directions.

How This Manual Is Organized

IMPORTANT!
Special features for a special Manual.

We have incorporated some special features in this manual:

- A fold-out page to look at while you read the instructions shows the front controls of the CA-S200. Some procedures have the illustrations of which control to use right with them, and for some you will need to look at the fold-out for the illustration.
- Basic information that is the same for many different functions is grouped in one place, and not repeated in each procedure. For instance, in the section on playing a CD, we do not repeat the information about setting the volume and the sound conditioning, which are mentioned in the Common Operations section.
- Names of buttons, controls and function names that light up on the display panel are written in all Capital letters like this: POWER.
- When we are talking about the Function, rather than the BUTTON or DISPLAY, then we just capitalize the first letter of the words.
- The ☞ alerts you to important information or how to solve special problems that may occur when using the CA-S200.

The column on the left of the page is a special place to make it easier to find just what you want to know about, with little headlines announcing what each part of the page is about. Sometimes illustrations and helpful hints are placed here also.
Basically we use three kinds of information to help you understand and use the CA-S200:

- ❑ Information about what you can do (such as record a CD or preset a radio station) and how the Unit is designed to make doing this activity easy.
- ❑ Procedures, usually numbered in the order you do the steps, to guide you in exactly what to do to accomplish something, such as tune a radio station or record a tape.
- ❑ Information you need to know to make decisions about which functions of the CA-S200 to use for particular tasks (such as when to use Dolby NR to improve tape sound) and special hints to make your work go smoothly, like reminding you to set the sound effects before starting the CD to tape recording, since they cannot be changed once recording begins without starting completely over.

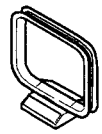
The manual has a table of contents to help you easily look up what you want to know too.
We've enjoyed making this manual for you, and hope you will use it to enjoy the sound and many features built into your CA-S200.

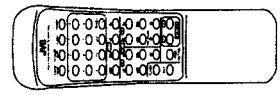
Getting Started Right

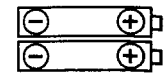
Unpacking

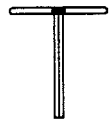
Inside the packing box....

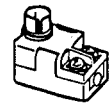
Of course you have already opened your CA-S200 carton, since you are reading this manual. Although the Unit is quite sturdy, you may want to save the packing to re-pack your CA-S200 in case you are moving it some distance.
Check to be sure you have all of the following things, which are supplied with the CA-S200:


AM (MW/LW) Antenna


Remote Control


Batteries (x2)


FM Feeder Antenna
(except for Germany)


Antenna Adaptor
(except for Germany)

FM Wire Antenna
(only for Germany)

If any are missing, contact your dealer immediately.

Location

Where can you put it?

You can place the CA-S200 in many different kinds of locations to suit your needs; just observe the Important cautions 1 on page 2: keep away from moisture and heat; leave some space between the Unit and its surroundings, more than 1 cm at the sides of the console and 10 cm at the back.

Set Up

Very little assembly required

You will need to do the following four things to get your CA-S200 ready to use.

1. Connect the Antenna(s).
2. Connect the Speakers.
3. Put Batteries (included) in the Remote.
4. Connect other sound sources (such as VCR) if used.

1. Connect the Antenna(s)

Please look at the diagrams on pages 5 and 6 to do these things.

Follow the diagrams on page 5. Here's what you need to know:

- ❑ For AM (MW/LW) (LW: except for Canada) reception you must connect the supplied loop antenna. If reception is poor, connect the outside antenna, but leave the loop antenna in place—the AM (MW/LW) (LW: except for Canada) will not work correctly without it.
- ❑ For FM reception, connect the supplied wire as shown. However, if you use an outdoor antenna, disconnect the indoor FM antenna first.
- ❑ To avoid noise, keep antennas away from metalic parts of the CA-S200, connecting cords and the AC power cord.

2. Connect the Speakers

Basically, you look at the diagrams on page 6 and follow the pictured instructions.

3. Put Batteries in the Remote

Pay close attention to getting the batteries in correctly—we've made it very easy, just match the + and – marks on the batteries with the + and – markings on the Remote. See page 2 for instructions

> **CAUTION:** Handle batteries with care. See page 2 for proper use of batteries.

4. Connect Other Sound Sources, such as VCR

You can play the sound portion of a TV program or video tape through your CA-S200's sound system, often improving it greatly. A VCR can also be hooked up to play through the CA-S200. Just follow the diagram on page 6.

> **CAUTION:** DO NOT connect optional equipment while the power is ON.

Now you can plug the AC power cord into the wall socket. The standby indicator is lit and the clock display starts blinking. Your CA-S200 is at your command!

> **CAUTION:** First make all connections before plugging the Unit into any AC power outlet.

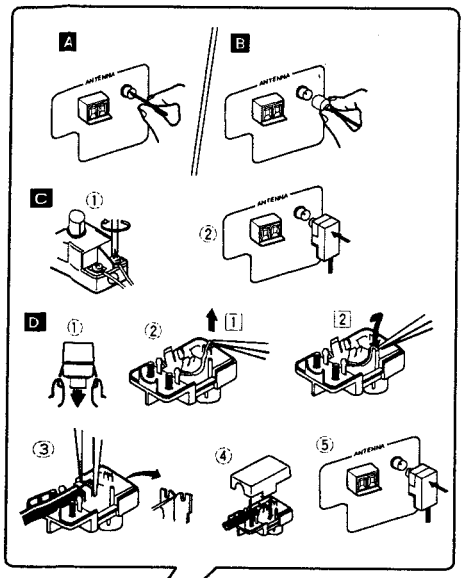
Read on and find out how to use the many features built into your Unit.....

English

Connection Diagrams and Instructions

Connecting the FM and AM (MW/LW) Antennas

FM Antenna Connections



For Germany

A Using the Supplied Wire Antenna

The FM wire antenna provided can be connected to a FM 75-ohm COAXIAL as a temporary measure.

Connect the Antenna Adaptor to the FM 75-ohm COAXIAL terminal.

B Using the Coaxial Type Connector (Not Supplied)

A 75-ohm antenna with coaxial type connector (DIN 45332) should be connected to the FM 75-ohm COAXIAL terminal.

For Continental Europe and Canada

C Using the Supplied Feeder Antenna

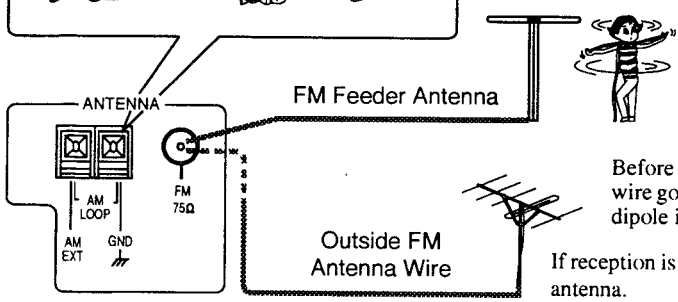
① Attach the feeder antenna to the FM connector as shown in the figure.
② Connect the FM connector to the FM 75-ohm COAXIAL terminal.

D Using FM 75-ohm Antenna Cable (Not Supplied)

① Open the claws at both sides and remove the cover.
② Move the conductor wire from 1 to 2 using tweezers or a similar tool (only when using coaxial cable).
③ Fix the coaxial cable and its core.
④ Put on the cover.
⑤ Connect the FM connector on the FM 75-ohm COAXIAL terminal.

Note:

Make sure the antenna conductor does not touch any other terminals, connecting cords and power cord on the system.
This could cause poor reception.



For Germany

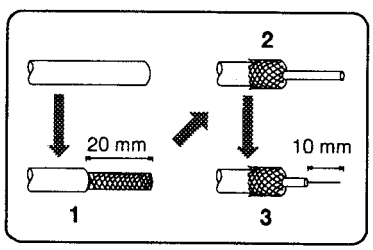
Extend the supplied wire antenna horizontally.

For Continental Europe and Canada

Unfold the loops of the supplied dipole FM feeder antenna and extend them as shown. Fasten them up in the position which gives you the best FM reception.

Before attaching a 75 ohm coaxial lead (the kind of round wire going to an outside antenna), disconnect the supplied dipole indoor antenna.

If reception is poor, connect the outside antenna.

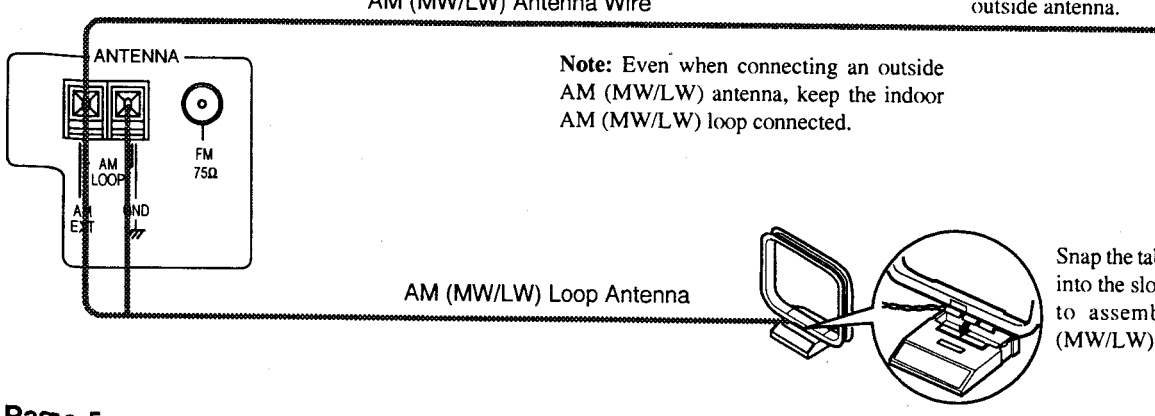


How to Strip the 75-ohm Coaxial Cable

1. Strip back the outside covering of the 75 ohm coaxial cable to expose the braided metallic mesh.
2. Pull the mesh back and twist into a single connector as shown.
3. Strip the insulation about 10 mm back from the central wire.
4. Attach to the supplied Antenna Adaptor, as shown in the diagram above.

AM (MW/LW) Antenna Connections

LW: For Continental Europe and except for Canada

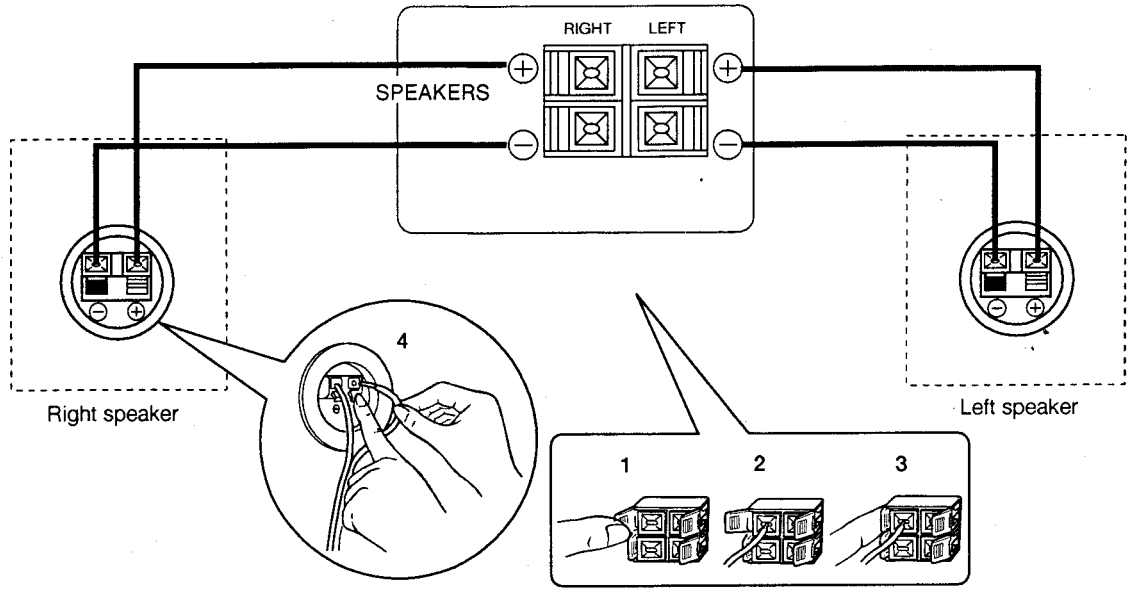


If reception is poor, connect the outside antenna.

Note: Even when connecting an outside AM (MW/LW) antenna, keep the indoor AM (MW/LW) loop connected.

Snap the tabs on the loop into the slots of the base to assemble the AM (MW/LW) loop.

Connecting the Speakers



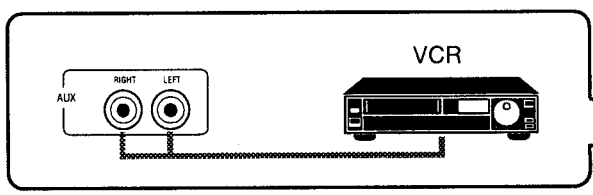
For each speaker connect one end of the speaker wire to the speaker terminals on the back of the CA-S200 and one end to the speaker. On the back panel:

1. Open each terminal.
2. Insert the end of the speaker wire as shown (be sure to remove the insulation at the end of each wire first).
3. Close the terminals to clamp the speaker wires firmly in place.
4. Connect the red (+) and black (–) terminals of the right side speaker to the red (+) and black (–) terminals marked RIGHT on the CA-S200.
   Connect the red (+) and black (–) terminals of the left side speaker to the red (+) and black (–) terminals marked LEFT on the CA-S200.

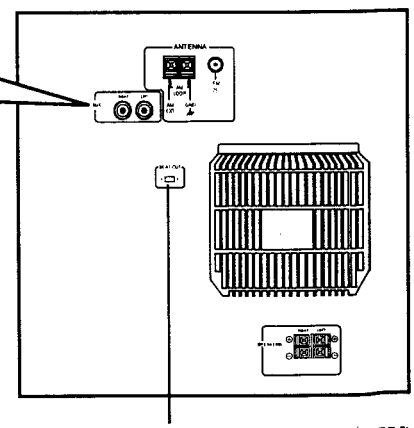
IMPORTANT: Match the polarity of the speaker terminals with the polarity of the terminals on the CA-S200, red (+) to red (+) and black (–) to black (–).
CAUTION: Use speakers with the same speaker impedance indicated by the speaker terminals on the back of this Unit.

Connecting Auxiliary Equipment

VCR



IMPORTANT
Make sure that the power is turned off before setting.



When recording an AM (MW/LW) broadcasting program, beat sounds may be heard and recorded. Set the BEAT CUT selector to either 1 or 2, so that beat sounds will not be heard or recorded. (except for Canada)

Common Operations

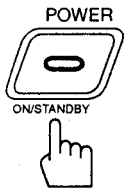
Here are the things that apply to all the functions of your CA-S200. If something in a procedure is unclear to you, check back here.

COMPUPLAY

The Magic of

COMPUPLAY is JVC's new feature that lets you control the most used functions of the CA-S200 with a single touch. This One Touch Operation starts playing a CD, turns on the radio, plays a tape, etc. with a single press of the play button for that function. What One Touch Operation does for you is to turn the power on, then start the function you have called for. If the Unit is not ready, such as no CD or tape in place, the Unit still comes on and then gives you a message on the display so you can put in a CD or tape.
How One Touch Operation works in each case is explained in the respective section about that function.

Turning the CA-S200 On



Press POWER; the stand-by indicator on POWER goes out.

- ❑ The CA-S200 comes on ready to do whatever it was doing when the power was last shut off. So if the last thing you were doing was listening to a tape in deck B, you now are ready to listen to a tape again in deck B, or you can change to another source.
- ❑ If you were listening to the radio last, the radio comes on playing that last station.

Turning the CA-S200 Off

Press POWER again; the stand-by indicator lights up and the display is blank except for the clock display.

- ❑ A small amount of power (13 watts) is always consumed even though the power is turned off (called standby mode).
- ❑ To switch the power off completely, unplug the power cord.

☞ If the power cord is unplugged, preset stations may be erased and the clock will lose its setting. Resetting is necessary.

Controlling the Sound

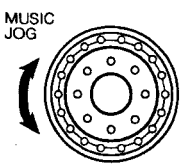
Making it sound the way *You* want it to:

The same set of buttons and knobs control the sound, no matter which function is producing it. Here we will briefly explain how these controls work, and how you can use them to increase your enjoyment of the music.

Volume Control

•Volume

Rotate clockwise to increase loudness, counter-clockwise to reduce loudness. Be sure to read the caution at the end of this section about high sound levels damaging your hearing or your equipment.



Sound Modes

The CA-S200 has some preset sound effects that let you control the way your music sounds, so you can tailor it for your room and for the quality of the source. We can give you some idea of how each one affects the music, but the only way to really tell is try them yourself.
You can use only one effect at a time selecting from the MUSIC JOG dial (LIVE SURROUND and SEA effects). Feel free to experiment!
To get an effect, press the SOUND EFFECT ON/OFF button and the last live surround effects or sound mode is displayed. To select another effect, turn the dial so that the indicator lights up.
To cancel the effect, press the SOUND EFFECT ON/OFF button, and "OFF" will appear. You can turn the dial to select another effect.

LIVE SURROUND effects

•D.CLUB
•HALL
•STADIUM

With these effects, the sound coming from only two speakers approaches the quality of sound from four speakers.
•**D.CLUB** — Increase resonance and bass.
•**HALL** — Adds depth and brilliance to the sound, like in a concert hall.
•**STADIUM** — Adds clarity and spreads the sound, like in an outdoor stadium.

ROCK
POPS
CLASSIC

Preset SEA (Sound Effect Amplifier) effects
Adjustments of frequency range levels have been preset as three SEA effects.
ROCK — Used for boosting low and high frequencies.
POPS — Used for increasing the richness and fullness of the vocal sound.
CLASSIC — Used for wide and dynamic sounds.

> ☞On the Remote, you can't find buttons for these preset sound effects. By pressing SOUND MODE on the Remote, you can cycle through the effects one after the other.

Things to remember about using preset effects:

- ❑ Set a preset effect before you start recording with Auto Edit, because once recording starts, the preset effect cannot be changed without stopping recording, and often having to start over. If you need different effects for each selection, use the standard recording features described on page 13, rather than Auto Edit.
- ❑ Each of the preset effect changes the sound in a different way by increasing or reducing the intensity of the sound. To see how each part of the sound will be changed, watch the display as you select an effect. The display shows the pattern of enhancement for that effect.

Active BASS Effect
The richness and fullness of the sound is maintained regardless of how high or low you set the VOLUME control.
To get the effect, press A. BASS EX. so that the indicator on the display lights up and "ACT - BASS" will appear for a few seconds.
To cancel the effect, press the button again so that the indicator goes off.

Listening with Headphones

A pair of headphones can be connected to the PHONES jack on the front panel. **Be sure to turn down the volume before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.**

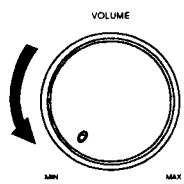
The Display and the Indicators—Two Very Useful Hints

The Display and The Indicators

- ❑ The display tells you many useful things about what your Unit is doing. Watch it as you give instructions by pressing buttons. It also gives you some messages like "NO DISC", "NO TAPE", and some others to show you what to do next.
- ❑ Some of the controls have a small light, called an indicator, right next to or even right on the button. The light comes on when the function is on, and goes off when it is not in use.

CAUTION: Too LOUD!

> CAUTION: Always set the VOLUME control to MIN before turning on a connected source such as a VCR, or starting any other of the sound sources such as the radio, tape, or CD player. Otherwise, if the VOLUME control is turned up, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.



Listening to the Radio

You can listen to both AM (MW/LW) (LW: except for Canada) and FM.

- ❑ Before listening to the radio, check that both the AM (MW/LW) (LW: except for Canada) and FM antennas are firmly connected (See page 5).
- ❑ The AM button is labeled differently for the Canada and the other models: in the Canada it is labeled AM, and in the others, AM MW/LW.

COMPU PLAY
Radio

One Touch Radio

Just press AM to turn on the Unit and start playing the most recent AM station tuned in or press FM to start the most recent FM station tuned in.

- ❑ You can switch from any other sound source to the radio by pressing AM or FM.

English

Tuning in a Station

Press AM or FM to turn on the radio. The display shows the station frequency tuned to.

Three ways to tune in a station

Three ways to select a station

- Press TUNING < or > repeatedly to move from frequency to frequency until you find the one you want.
- Hold down TUNING < or >, the frequency starts changing on the display. When a station is tuned in, "TUNED" lights up on the display and the frequency stops changing.
- Press once and release PRESET < or > to go to the next preset station, or hold PRESET < or > to cycle through the preset stations: release the button when the preset station you want shows on the display. (This method is possible only after presetting stations.)

You can also use the Remote to tune in stations and preset channels:

To tune preselected stations with the Remote:

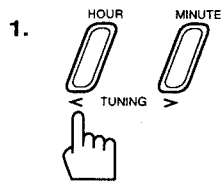
1. Press TUNER to select the band you want.
2. Select the station by entering the preset channel number in the 10 key pad of the Remote (Refer to page 19).

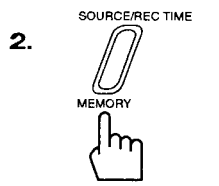
Presetting Stations

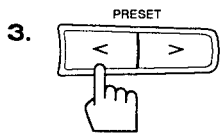
How to preset AM and FM radio stations

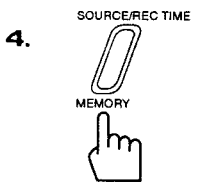
Once a station is assigned to a channel number, the station can be quickly tuned either from the Remote using the 10 key pad of the Remote or the CA-S200 itself using PRESET < or > to call up the channel number.

❑ You can preset 40 AM and FM stations at random.









☞ Preset stations may be erased when power is cut off to the Unit, as when it is unplugged from the AC outlet or a power failure occurs. If the preset stations are lost, simply set the stations again using the following procedure.

To preset radio stations

1. Tune in the station you want to set using TUNING < or >.
2. Press MEMORY.
   On the display "MEMORY" will blink for 4 seconds.

☞ During these 4 seconds while "MEMORY" is blinking assign a channel number to the station and enter it into the memory.

3. Select a channel number by pressing PRESET < or > until you find the channel number you want.
4. Press MEMORY and the station will be assigned to the channel number shown on the display.
   ❑ If a station has been previously stored using the same channel number, it will be erased and the newly selected station will be stored.

Receiving in Stereo or Mono

When an FM stereo broadcast is hard to receive or noisy:

❑ Press FM MODE/MUTE on the CA-S200 and the remote control so that reception improves, although you lose the stereo effect. In this state, you will hear noise while tuning into stations.

❑ To restore stereo effect, press FM MODE/MUTE again so that "AUTO" appears on the display.
In this state, when a program is broadcast in stereo, you will hear stereo sound; when in monaural, you will hear monaural sounds. Furthermore, in this state, you won't hear noise while tuning to stations.

Listening to a Compact Disc

COMPU PLAY
Compact Disc Play

The quickest way to start a CD is with the One Touch Operation:

❑ Press ▷/II on the CA-S200 or ► on the Remote.

- If a CD is already loaded, the Unit automatically turns on and starts to play it from track 1.
- If no CD is loaded, the Unit automatically turns on and the CD tray opens. This is exactly the same as what happens if you press ▲ instead of ▷/II.

Basics of Using the CD Player

Here are the basic things you need to know to play a CD and locate the different selections on it. Each selection is called a track, so when we are talking about locating a track, we are also talking about how you find a certain song or performance.

How to use the CD player: from the most basic to advanced

To Play a CD

1. Press ▲.
2. Put a CD, printed side up, into the tray.
3. If you want to listen to the CD now, press ▷/II (or ► on the Remote).
   The display shows the track being played and the length of time since it started.

To stop the CD, press ■/CLEAR (or ■ on the Remote). When you start again, the CD begins with track 1.

To pause the play, press ▷/II while the CD is playing so when you press ▷/II again (or ► on the Remote) the CD starts just where you left off.

To remove a CD, press ▲, take the CD out, and press ▲ again to close the tray.

❑ Keep the tray closed except during loading and unloading to protect the mechanism from dust and damage.

How to find a track

How to Find the Track or a Particular Point You Want

Each time you press briefly and release ⏮ or ⏭ (⏮ or ⏭ on the Remote) the track changes by one.

- ❑ Press and release ⏭ (or ⏭ on the Remote) to go ahead one track at a time.
- ❑ Press and release ⏮ (or ⏮ on the Remote) to go back one track at a time.
- ❑ Holding down ⏮ or ⏭ will fast forward or fast reverse the CD so you can quickly find the particular part of a track you want to listen to. Fast forward and fast reverse are only possible by using the buttons on the Unit when the CD is playing.
- ❑ Holding down ⏮ or ⏭ on the Remote allows you to change the tracks continuously. (By using the buttons on the Unit, it is only possible when the CD is not playing.)

Using the Remote to find a track

Locating a Track with the Remote

Using the 10 key pad on the Remote allows you to go directly to the beginning of any track.

1. Press CD 10 KEY.
2. Enter the number of the track you want using the 10 key pad. The selected track will start to play.
   Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10.

Programming the Playing Order of the Tracks

With programming, you can play back tracks in any order

In addition to the high quality sound which makes the CD such a good way to listen to music, you can change the order in which the tracks play.

Random Play

The tracks will play in no special order when you use this play mode.
Before starting a CD, press RANDOM on the CA-S200.
When all of the tracks have been played, the CD shuts off.

- ❑ Press REPEAT before or during random play to instruct the CA-S200 to continue with a different random track selection after the last selection is played.

To cancel random play, press ■/CLEAR (or ■ on the Remote).

Program with the Remote

Programmed Play

You can arrange the tracks to play in any order you like with the Program function. The Remote is very useful for this because you can select tracks by number with the 10 key pad. See "How to Use the Remote Control" on page 19, if you need more information about its use. You can also use the main Unit.

English

How to program: just 3 easy steps

To program the order of CD tracks using the Remote

1. Press PROGRAM on the CA-S200.
2. Press CD 10 KEY.
3. Press the number of the first track you want to hear, then the number of the second track, and so on until you have entered all the track numbers you want to play.
   - ❑ Refer to the section "How to use the Remote Control" on page 19 if you have questions about how to enter numbers above 10.
   - ❑ The unit will only display up to 15 tracks.
   - ❑ Your program can include up to 32 tracks, and you can repeat tracks if you wish.
4. Press ► to start the program—the first track you programmed will start to play, followed by the next one you entered, until all the selected tracks are played.

To program the CD from the Unit

1. Press PROGRAM.
2. Press ⏮ or ⏭ to locate the track you want to start with.
3. Press PROGRAM to store the selected track.
4. Repeat steps 2 and 3 until you have entered all the tracks you want to program.
5. Press ▷/II and the Unit will begin playing the tracks in the order you programmed them.

To stop the CD during programmed play, press ■ on the Remote or ■/CLEAR on the CA-S200.

To cancel the program, press ■/CLEAR on the CA-S200 while the CD is not playing.

Programming Hints

A few hints to make programming easier

- ❑ To add a track to your program, enter the track numbers with the 10 key pad. Any tracks you add will appear at the end of the current program.
- ❑ If you want to change the entire program, press ■/CLEAR on the CA-S200 while the CD is off, and then you can start over.
- ❑ To check the order of the tracks in your program in STOP mode, press ⏮ or ⏭ on the Remote to display the order of the tracks. Each time you press ⏭ the next selection in your program is displayed. (Press ⏮ for the previous selections.)

Repeating a Selection or the Entire Disc

Repeat a selection or the whole CD

You can have either the program or the individual selection currently playing repeat as many times as you like by pressing REPEAT.

Each time you press REPEAT, it cycles from function-off, which turns "REPEAT" out on the display, to "REPEAT" which will repeat all tracks in order or according to the program you have set, and then to "REPEAT 1" which will repeat the currently played track.

To cancel repeat mode, press REPEAT until the "REPEAT" or "REPEAT 1" are not displayed any more.

Listening to a Tape

Listen to a tape: How to use your tape deck

The tape deck allows you to play, record and dub audio tapes.

- ❑ Most tapes are now recorded with the Dolby NR system, so first check which type of the Dolby NR system is used on the tape. Only the Dolby B NR is incorporated into the CA-S200. However, tapes other than the Dolby B type is also available for playing.
- ❑ With Automatic Tape Type Detection, you can listen to type I, II, or IV tapes without changing any settings.
- ❑ To record or dub, see Recording on page 13.

Playback Procedure

One Touch Play

By pressing either ▷ or ◁ on either deck A or B (► or ◄ on the Remote), the power will come on, and if a tape is in the deck, it will start to play. If no tape is loaded, the Unit will come on and wait for further instructions.

Regular Play

When the power is already on, you can use this basic procedure:

1. Press EJECT of the deck you want to use.
2. When the cassette carrier opens, put the cassette in, with the exposed part of the tape down toward the base of the CA-S200.
   - ❑ If the cassette carrier does not open, turn the Unit off, then back on again and press EJECT.
3. Close the carrier gently.
4. Press ▷ to play the front side, or ◁ to play the reverse side. The arrow indicator on the pressed button starts blinking and tape play starts.

To stop playing, press ■.

To remove the tape, press EJECT.

Fast Left and Fast Right

- ❑ While the tape is stopped, press ◄◄ and the tape will wind rapidly onto the left side of the cassette without playing.
- ❑ While the tape is stopped, press ►► and the tape will wind rapidly onto the right side of the cassette without playing.

Music Scan

Finding the place you want: Music Scan

To find the beginning of a music track during play, use the Music Scan function. Music Scan searches for blank portions that usually separate tracks, then plays the next song.

- ❑ If you are recording on deck B or put deck B in recording pause mode.

> ☞ Music Scan will not work on deck A.

Scan Back

To find the beginning of the current song

Press ◄◄ or ►► during play.

- ❑ Make sure that you press ◄◄ or ►► in the opposite direction to tape play. Searching stops automatically at the beginning of the current song, and the current song starts automatically.

Scan Forward

To find the beginning of the next song

Press ◄◄ or ►► during play.

- ❑ Make sure that you press ◄◄ or ►► in the same direction to tape play. Searching stops automatically at the beginning of the next song, and the next song starts automatically.

> ☞ The Music Scan works by detecting a 4-second blank at the beginning of each selection. So it won't work well if your tape has:
> - No blank at the beginning of a track.
> - Noise (often caused by much use or poor quality dubbing) which fills the blank with noise.
> - Long very soft passages or pauses in a selection. The scan will detect these instead of the 4-second long blanks. If this happens, just go ahead and scan again until you reach the selection you want.

Other Useful Features Using the Tape Deck

More Useful Things to Know:

•Reverse Mode

•Continuous Play

•Dolby

- ❑ Use **Reverse Mode** to make the tape automatically reverse at the end of a side and start playing the other side. Press REVERSE MODE to change from Reverse Mode on (the indicator is lit) to Reverse Mode off, or from off, to on.
- ❑ **Continuous Play:** When a tape finishes playing, the Unit always checks to see if a tape is in the other deck. If one is there, it automatically starts playing it while rewinding the first tape. This Continuous Play happens regardless of which deck starts first.
  - With the Reverse Mode on, the other tape will start playing when both sides of the first tape have been played. As long as the REVERSE MODE indicator is lit, the tapes will continue to play in the above sequence.
  - With the Reverse Mode off, the tape will play to the end of the current side, switch to the other deck and start playing a tape there while rewinding the first tape. Then when one side of the tape in the other deck is over, the first deck starts playing the same side again. The tapes will continue to play in the above sequence.
- ❑ Press DOLBY B NR to switch **Dolby Noise Reduction** on (the indicator lights up) or off (the indicator goes off). If a tape is recorded with Dolby B NR, playing it back with the Dolby NR on will reduce tape noise and improve the clarity of the sound.

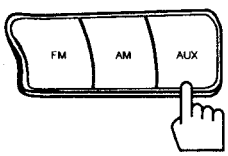
> Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
> "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Listening to a VCR or Optional Equipment

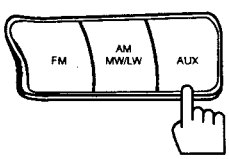
Advantages in connecting a VCR or optional equipment

By playing the sound from a VCR or optional equipment through the CA-S200, you can often dramatically improve the quality, and gain control over how the music or program sounds. Once the connected equipment is playing through the CA-S200, you can apply the sound effects, make recordings, or listen with the headphones.

- ❑ First make sure that the connection between optional equipment and the CA-S200 has been done correctly (See page 6).



For Canadian model



For the other models

1. Set the Unit's volume to MIN.
2. Press AUX on either the Remote or the Unit.
   "AUX" lights up on the display.
3. Start playing the connected equipment.
   The sound from the connected source is now played through the CA-S200.
4. Adjust the volume level.

To cancel the AUX setting

Change the source by starting any one of the CA-S200's built-in sound sources, such as the radio or CD player.

English

Recording

What can you record?
- **Tapes**
- **Radio**
- **CDs**
- **Microphone**
- **Connected source**

Recording onto cassette tape from any of the sound sources is easy and the CA-S200 does most of the work. Just have a tape in deck B, have the source ready, make one or two settings, and you're ready to record.

For each source the procedure is a little different and now we'll explain just what to do for each one. If you forget, just go back to the section which has the specific procedures you need. But first, here are a few things to make your recordings better.

Things to Know before You Start Recording:

Copyright

- **It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.**

Reduce hiss—Dolby NR

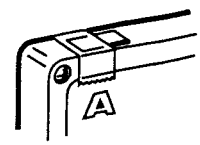
- Press DOLBY B NR — the indicator lights up — to reduce tape hiss, **except** when dubbing tapes since Dolby NR is inactive in dubbing mode regardless of the setting of DOLBY B NR. The dubbed tape automatically contains the same processing as the source tape.

Recording level

- The recording level, which is the volume at which the new tape is being made, is automatically set correctly, so it is not affected by the VOLUME control on the CA-S200. Thus, you can adjust the sound you are actually listening to without changing the recording.

Erasure protection

- Two small tabs on the back, one for side A and one for side B, can be removed to prevent accidental erasure or re-recording. To record on a cassette with the tabs removed, you must cover the holes with adhesive tape first. However, when a Type II tape is used, only cover part of the hole as shown, since the other part of the hole is used to detect the tape type.



(Type II tape)

Recording sound mode

- When recording, you can select the sound effects with the preset sound effect buttons to condition the music as it is recorded. But when recording using Auto Edit or CD Direct, once recording has started, these settings cannot be changed. When recording from tape deck A to deck B, the sound effects cannot be used, because the signal doesn't go through the amplifier first. This method gives you the highest quality dubbed tapes.

Usable tape type

- Type I and type II tapes can be used for recording. While type IV tapes can be played, type IV tapes cannot be used for recording on the CA-S200.

CAUTION: If recordings you make have excessive noise or static, the Unit may be too close to a TV which was on during the recording. Either turn off the TV or increase the distance between the TV and the CA-S200. The use of C-120 (C-120 minutes turn around) or thinner tape is not recommended, since characteristic deterioration may occur and these tape easily jams in the pinch and the capstan.

Standard Recording

Standard recording: Any source to tape

This is the basic method for recording any source. The CA-S200 also has special ways for recording CD to tape, and tape to tape, which save you time and effort, as well as give you some special effects. However, when you need to add a selection to a tape you have made, or are combining selections from several sources on one tape, use the method we describe here; just substitute the source you want, such as a tape in deck A, or CD, or radio in this procedure. You can also record from the microphone or an auxiliary source with this procedure.

Source to tape: Step by step

To Record Any Sound Source to Tape

Follow these steps to record from any sound source onto a tape in deck B.

1. Insert a blank or erasable tape into deck B.
2. Press REC PAUSE.
   The REC PAUSE indicator lights up.
3. Press REVERSE MODE if you want to record on both sides of the tape.
   The REVERSE MODE indicator lights up.
4. Prepare the sound source, for example, tuning in a radio station, loading a CD, turning on a connected VCR or optional equipment for recording.
5. Press either ▷ to record on side A, or ◁ to record on side B of the tape, on deck B.

CD to Tape Recording

CD to tape recording: Introduction

There are three ways to record from CD to tape:

- ❑ **Standard Recording** described on the previous page.
- ❑ **CD Direct Recording** — Everything on the CD goes onto the tape in the order it is on the CD, or according to an order you have set in a program.
- ❑ **Auto Edit Recording** — Your CA-S200 figures out which selections to put on which side of the tape, so a selection isn't cut off before it's finished when the tape runs out.

CD Direct Recording

CD Direct Recording: Introduction

1. Insert a blank or erasable cassette into deck B.
   - ❑ If you want to record on both sides of the tape, press REVERSE MODE on the tape deck so that the REVERSE MODE indicator lights up.
2. Load a CD into the tray and press ⏏ to close the tray.
3. Set the sound mode if you want, since the sound mode cannot be changed once recording starts.
4. Press CD REC START.
   - ❑ At the end of the tape, the CA-S200 automatically goes back to the beginning of the last selection and re-records it, this time gently fading out at the end.
     If you selected the REVERSE MODE, side B starts with the last selection on side A. (A 10-second blank is also created at the beginning of side B.)
     When the tape is finished, the Unit shuts off the CD and the tape deck.

     To stop any time during the recording process
     Press ■ on deck B.

Auto Edit Recording

Auto Edit Recording: Introduction

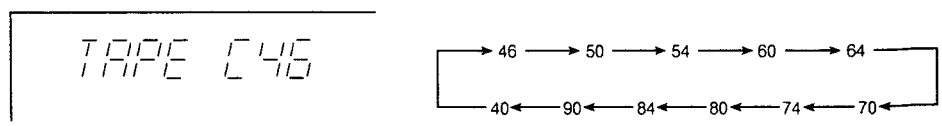
Using Auto Edit, you can record the CD tracks to fit the tape, so a selection isn't cut off. Auto Edit is one of the best ways to copy all of a CD onto a tape.
Auto Edit programs the CD tracks in the numerical order. To prevent the end of the last track on side A from being cut off, the last track on side A is selected to fit on the remaining tape length.

Auto Edit Recording: Step by step

AUTO EDIT

SIDE A/B

1. Insert a blank or erasable cassette into deck B.
   - ❑ If you want to record on both sides of the tape, press REVERSE MODE on the tape deck so that the REVERSE MODE indicator lights up.
2. Load a CD into the tray and press ⏏ to close the tray.
3. Set the sound mode if you want, since the sound mode cannot be changed once recording starts.
4. Press AUTO EDIT on the CA-S200.
   "EDIT" appears on the display and then the minimum standard tape length to use for this CD appears.
   - ❑ You can select a different length of tape, depending on the actual size of the tape you are using, from eleven possibilities programmed into the CA-S200: 40, 46, 50, 54, 60, 64, 70, 74 , 80 , 84, 90. Cycle through these choices using ⏮ or ⏭ (⏮ or ⏭ on the Remote) until you find the length closest to your tape's actual length.
     - If you pick a tape length shorter than the total playing time of the CD, the last tracks on both sides of the tape will be faded out as the tape ends.



5. Press SIDE A/B.
   The display shows which tracks will go on side A and which on side B. Each time you press SIDE A/B, the display switches between A and B.
6. Press CD REC START.
   The Unit will automatically rewind the tape to the beginning of side A, create a 10 second blank, turn on the CD and start recording.

To stop any time during the recording process
Press ■ on deck B.

Tape to Tape Recording (Dubbing)

Tape to tape dubbing: Introduction

Recording from one tape to another is called dubbing.
You can dub for the best possible quality.

- ❑ To dub both sides of a tape, start from side A for both deck A and deck B, and press REVERSE MODE so that the REVERSE MODE indicator lights up.
- ❑ It is preferable that the type of tape Type I (Normal) or Type II (CrO_2) you record *from* be the same as the type you record *onto*.

Dubbing

Dubbing: Step by step

1. Insert a source cassette you want to copy *from* into deck A for playback.
2. Insert a blank or erasable cassette you want to copy *onto* into deck B for recording.
3. Press REC PAUSE on deck B.
4. Press ▷ (or ◁) on deck B.
   Recording starts.
   ❑ To advance the leader tape, start recording first and wait about 10 seconds before starting the deck A.
5. Press ▷ (or ◁) on deck A.
   Deck A starts playing.

To stop any time during the dubbing process

Press ■ on both deck A and deck B.

How to use the DUBBING button

1. Insert a source cassette you want to copy *from* into deck A for playback.
2. Insert a blank or erasable cassette you want to copy *onto* into deck B for recording.
3. Press DUBBING.
   Deck A and deck B will start simultaneously.
4. To stop:
   - Press ■ on deck A. Recording on deck B will be paused by Rec Mute.
   - Press ■ on deck B. Deck A and deck B will stop simultaneously.

☞ Dolby NR is inactive in dubbing mode regardless of the setting of DOLBY B NR. The dubbed tape automatically contains the same processing as the source tape.
☞ You cannot dub using the sound modes such as D.CLUB, HALL, STADIUM, etc.

How to Set the Clock and Use the Timers

Four Timers:
•REC
•DAILY
•SLEEP
•AUTO POWER OFF

The timers let you control recording and playing functions automatically. With the CA-S200 they are particularly easy to set and use. Four types of timers are available:

- ❑ **REC (Recording) Timer**—unattended recording of radio broadcasts. You can set the starting time and recording duration.
- ❑ **DAILY Timer**—Wake up to music from any source.
- ❑ **SLEEP Timer**—Fall asleep and have your CA-S200 turn off automatically after a certain length of time.
- ❑ **AUTO POWER OFF**—Automatically turns off the Unit when the CD or tape finishes.

Clock Setting

IMPORTANT! Set your clock!

The timers depend on the clock: if the clock is right, the timers will work like you expect, but if the time is incorrect on the clock then the timers will also be incorrect.

Notice: The clock must be set, or the timers cannot be set!

1. CLOCK ADJ.

2. HOUR

3. MINUTE

So, let's set the clock first.

1. Press CLOCK ADJ.
2. Set the hour by pressing HOUR.
   Each time you press it, the hour advances by one. Hold the button down, and the clock will advance continuously as long as HOUR is held down.
3. Set the minutes by pressing MINUTE.
   Each time you press MINUTE the minutes advance by one. Hold the button down, and the minutes advance in ten minute increments as long as MINUTE is held down.
4. Press CLOCK ADJ. again and the clock is set and starts from zero seconds.

☞ If there is a power failure, the clock loses its setting, the display shows "0:00" ("AM 12:00" (for Canada)), and it must be reset.

Setting the REC (Recording) Timer

Recording when you're not there

REC TIMER

With the Recording Timer you can make a tape of a radio broadcast automatically whether or not you are there. For the timer to work correctly, you need to make sure of the following in addition to setting the time for the radio and tape recorder to come on:

- ❑ You can set the Recording Timer whether the Unit is on or off.
- ❑ The tape you want to record onto must be in deck B.
- ❑ The radio station whose program you want to tape must be the last one played before timer comes on.

Follow this procedure to set the Recording Timer

1. Press REC TIMER so that "REC TIMER" blinks on the display. As long as it is blinking, you can continue with the setting process.
   - ❑ If you wait too long, and it stops before you are done, just press REC TIMER twice and start over.
2. Set the time you want the radio to come on and the tape in deck B to start recording.
   - ❑ Press HOUR to set the hour and MINUTE to set the minute.
3. Press SOURCE/REC TIME to set the length of time for the recording.
   - ❑ Each time you press this button, the duration increases by one minute. If you hold the button down, it will advance in ten minute increments up to 120 minutes, which is the maximum time you can set.
   - ❑ At the end of the set length of time the CA-S200 will shut off.
     - If you set no time, but leave the display showing – –, the CA-S200 will not shut off, but keep playing until you shut it off.
4. Press REC TIMER again, or wait eight seconds. "TIMER OK" appears for a while, then "REC TIMER" lights up on the display.
   The Unit will memorize the setting. When the set time comes, the CA-S200 turns on and records the last station tuned when the Unit was last turned off.

☞ If you press any button while the Recording Timer is being activated, the function will be deactivated, but recording will not stop.

English

Before the set time comes

- ❑ Check that tape direction is correct. This is important especially when Reverse Mode is off.
- ❑ Set Reverse Mode on if you want to record on both sides of the tape.
- ❑ Select the sound mode if you want to record with one of the sound mode (D.CLUB, HALL, STADIUM, etc.).
- ❑ Set the VOLUME control to MIN so that no sound comes out from speakers when the recording timer switches on the CA-S200. This is important especially if you will be out during the recording.

To change the Recording Timer setting

Press REC TIMER twice ("REC TIMER" reappears) and make any changes you want.

To cancel the Recording Timer setting

Press REC TIMER button again so that "REC TIMER" goes off on the display.

Setting the DAILY Timer

Wake up to music with the DAILY Timer

With this timer you can wake up to music from a CD, tape or your favorite radio program.

- ❑ You can set the DAILY Timer whether the Unit is on or off.

Follow this procedure to set the DAILY Timer

1. Press DAILY TIMER so that "DAILY TIMER" blinks on the display.
2. Set the time you want the Unit to turn on.
   - ❑ Press HOUR to set the hour and MINUTE to set the minute.
3. Press SOURCE/REC TIME to set the source.
   - ❑ Each time you press this button, the display shows one of the four possible sources: CD, TAPE, FM or AM (MW/LW) (LW: except for Canada). Leave the one you want lit but select within 15 seconds.
     - If you select FM or AM (MW/LW) (LW: except for Canada) as the source, the last played station is the one which comes on at the set time.
4. Press DAILY TIMER again, or wait eight seconds. "TIMER OK" appears for a while, then "DAILY TIMER" lights up on the display.
   The Unit will memorize the setting.
   When the set time comes, the CA-S200 turns on ("DAILY 60" appears on the display), plays the source you have for 60 minutes, and then the Unit turns off.

> ☞ If you press any button while the DAILY Timer is being activated, the Unit will not turn off automatically after 60 minutes.

Before turning off the Unit

- ❑ If the source is tape:
  - Check that the tape transport direction is correct. This is important especially when Reverse Mode is off.
  - Deck B has priority, so if tapes are in both deck, the tape in deck B plays first.
  - Set Reverse Mode on if you want play both sides of the tape.
- ❑ Select the sound mode if you want to listen using a sound mode (D.CLUB, HALL, STADIUM, etc.).
- ❑ Set the volume to an appropriate level.

To change the DAILY Timer setting

Press DAILY TIMER twice ("DAILY" reappears) and make any changes you want.

To cancel the DAILY Timer setting

Press DAILY TIMER button again so that "DAILY TIMER" goes off on the display.

Setting the SLEEP Timer

Sleep Timer: turns the Unit off automatically after a set time

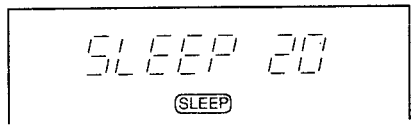
Use the SLEEP timer on the remote to turn the Unit off after a certain number of minutes when it is playing. Using this timer, you can fall asleep to music.

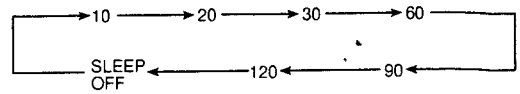
- ❑ You can only set the SLEEP Timer when the CA-S200 is on and a source is playing.

Follow this procedure to set the SLEEP Timer (or press SLEEP on the remote)

With the CA-S200 on and a source playing, press SLEEP TIMER on the remote. "SLEEP" starts blinking on the display.

- ❑ Each time you press SLEEP TIMER while "SLEEP" is blinking, it changes the number of minutes shown on the display in this sequence:





When the number of minutes you want shows on the display, just wait 8 seconds until "TIMER OK" appears and "SLEEP" stops blinking, but remains lit.
The Unit will now turn off after the number of minutes you set.

To change the SLEEP Timer setting

Press SLEEP TIMER until the number of minutes you want appears on the display.

To cancel the SLEEP Timer setting

Press SLEEP TIMER until "SLEEP" goes off on the display.
Turning off the Unit also cancels the SLEEP Timer.

Timer Priority

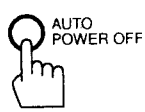
Since each timer can be set independently, you may have wondered what happens if the settings overlap: for instance, suppose you set the Recording Timer to record a broadcast from 1 am to 1:30 am, and then you set the sleep timer at midnight to run until 2 am. Will you still get your radio program recorded? Here are the priorities for each timer:

- ❑ The Recording Timer always has priority. This means that:
  - If another timer is set to come on during a time the Recording Timer is operating, the other timer just won't come on at all, so you will always get the entire program on tape.
  - If the Recording Timer is set to come on while another timer is being activated, the other timer will shut off 10 seconds before the Recording Timer is set to turn on, and the Recording Timer will then take over.
- ❑ The SLEEP Timer has priority over the DAILY Timer. This is important because if you set the SLEEP Timer to start before and then end after the DAILY Timer would start, the DAILY Timer doesn't come on. So if you want your alarm to go off as scheduled, be sure the SLEEP Timer shuts off before the DAILY Timer is to turn on the Unit.

Turning Off the CA-S200 Automatically

Auto Power Off: turns off your CA-S200 automatically

When playing either a tape or a CD, Auto Power Off will shut the Unit off when the tape or CD comes to the end. Although Auto Power Off is very useful for shutting off the CA-S200 at night, you can also use it if you think you might forget to turn the Unit off when leaving the house or your room at other times of the day.



To use Auto Power Off:

Press AUTO POWER OFF so that "AUTO POWER OFF" lights up on the display.

To cancel Auto Power Off:

Press AUTO POWER OFF again so that "AUTO POWER OFF" disappears on the display.

Important information on using Auto Power Off

- ❑ If you press AUTO POWER OFF while the CD is playing in repeat mode ("REPEAT" or "REPEAT 1" lights on the display), repeat mode will be cancelled and Auto Power Off will be able to work even though "REPEAT" or "REPEAT 1" remains lit on the display.

> ☞ If you press REPEAT to set the CD player in repeat mode while Auto Power Off is on ("AUTO POWER OFF" lights on the display), Auto Power Off will be cancelled even though "AUTO POWER OFF" remains lit on the display, and REPEAT 1 will not work.

- ❑ If you press AUTO POWER OFF while the tape is playing:
  - If Reverse Mode is off (the REVERSE MODE indicator is not lit), the Unit turns off when the current playing side finishes.
  - If Reverse Mode is on (the REVERSE MODE indicator lights up), the Unit plays the side currently playing, reverses and plays the other side, then shuts off.

English

How to Use the Remote Control

The Remote Control makes it easy to control many of the functions of the CA-S200 from a distance of up to 6 m away. You need to point the remote sensor at the CA-S200 front panel.

- ❑ Most of the buttons on the Remote Control do just what the ones on the CA-S200 do.
- ❑ A few functions are available only by using the Remote Control, and those are described below.
- ❑ The buttons whose names or marks are printed in blue can be used for the One Touch Operation.

Using the 10 Key Pad

The 10 key pad is used to specify a CD track or the number you have assigned to a preset radio station. To enter a number using the 10 key pad follow these steps:

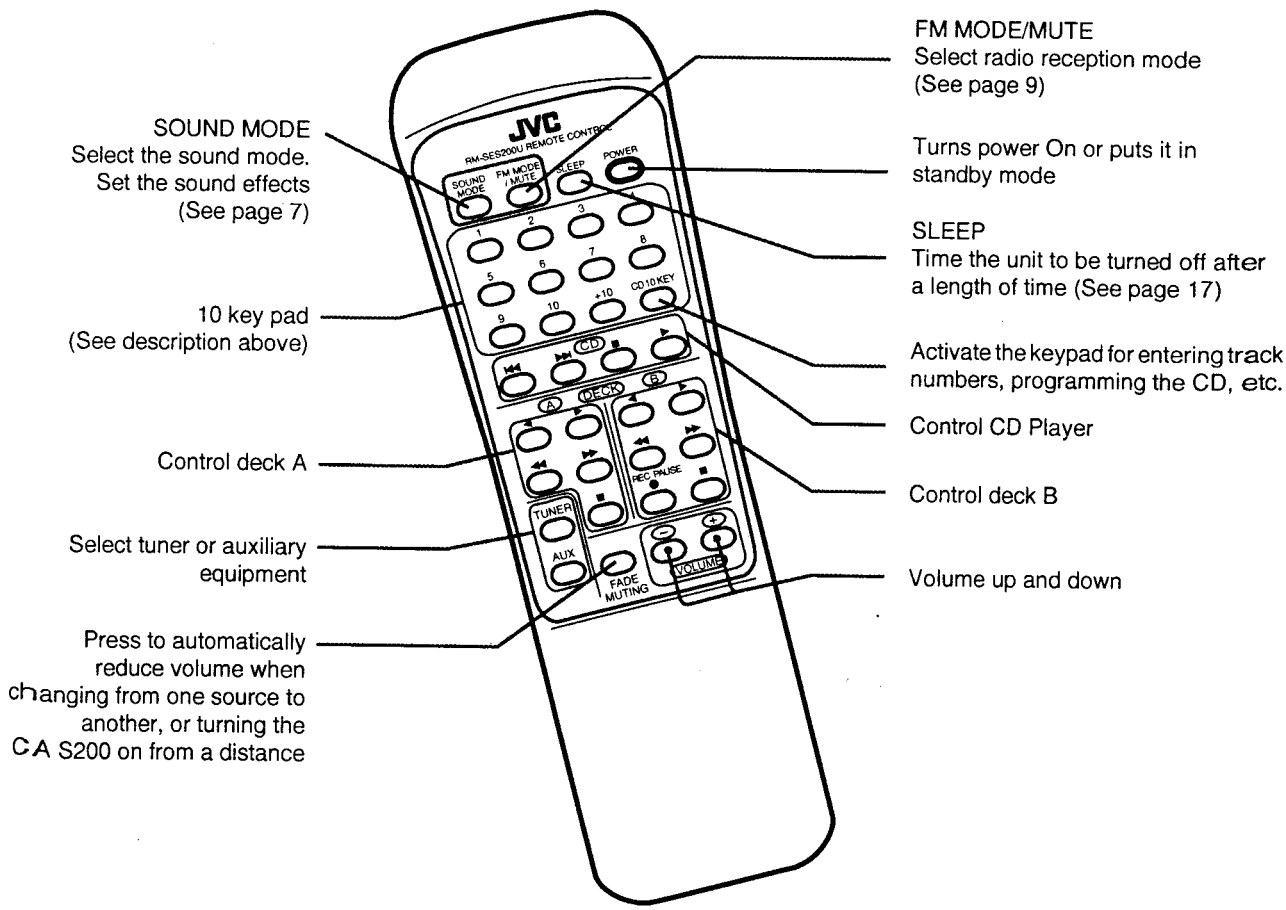
- ❑ Before using the 10 key pad, make sure which the 10 key pad functions for, the CD player or tuner. This is depends on which button on the Remote you have pressed before the 10 key pad. For example, if you press TUNER before 10 key pad, it can select a preset station.
- ❑ For numbers between 1 and 10, just press the button with the number you want.
- ❑ For numbers from 11 to 20, first press the +10 key, then the single digit numbers you want on the key pad — to get 15, first press +10, then 5. For 20 press +10 and 10.
- ❑ For numbers from 21 to 30, press the +10 key twice; then press the single digit numbers on the key pad — to get 25, press +10 +10 and 5. For 30, press +10 +10 and 10.
- ❑ For numbers from 31 to 40, follow the same procedure, only press the +10 key three times, then press the single digit numbers on the key pad — to get 32, press +10 +10 +10 and 2.

Using the FM MODE/MUTE Key Pad

When an FM stereo broadcast is difficult to receive or noisy. Functions/steps are available on page 9.

Using the SLEEP Key Pad

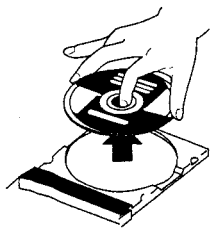
The SLEEP function will turn the unit off after a certain time, while you are asleep. With the unit on, press SLEEP. SLEEP will blink. Select the appropriate minutes — 10, 20, 30, 60, 90, 120 to turn the unit off.



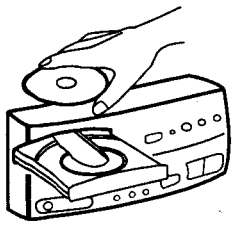
Care and Maintenance—General Notes

Compact Discs

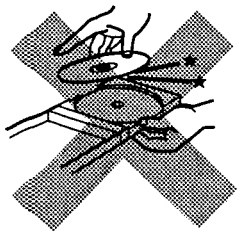
Handle your compact discs, cassette tapes, and tape deck carefully, and they will last a long time.



- Remove the CD from the case by holding it at the edges while pressing the center hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.



- Place the CD into the open tray with the label facing up.



- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from center to edge.

CAUTION: Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean a CD.

On Moisture Condensation

Moisture may condense on the lens inside the unit in the following cases:

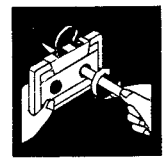
- After starting the heating in the room.
- In a damp room.
- If the unit is brought directly from a cold to a warm place.

Should this occur, the unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

In general, you will have the best performance by keeping your tapes, CDs, and the mechanism clean.

- Store tapes and CDs in their cases, and keep them in cabinets or on shelves.
- Keep the tape deck tape carriers and the CD tray closed when not in use.

Cassette Tapes



- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
- If the tape is loose, it may get stretched, cut, or caught in the cassette.

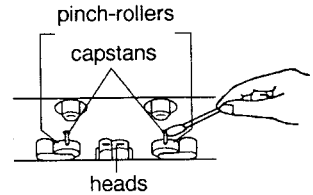
- Do not touch the tape surface.

- Do not store the tape:
  - In dusty places
  - In direct sunlight or heat
  - In moist areas
  - On a TV or speaker
  - Near a magnet

Tape Deck

- If the heads, capstans, and pinch-rollers of the tape deck become dirty, the following will occur:
  - Impaired sound quality
  - Discontinuous sound
  - Fading
  - Incomplete erasure
  - Difficulty recording

- Clean the heads, capstans, and pinch-rollers using a cotton swab moistened with alcohol.



- If the heads become magnetized, it will produce noise or lose high frequencies.

- To demagnetize the heads, turn off the Unit, and use a head demagnetizer (available at electronics and record shops).

English

Troubleshooting

- If you are having a problem with your CA-S200, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the Unit has been physically damaged, call a qualified person, such as your dealer, for service. .

SYMPTOM	POSSIBLE CAUSE	ACTION
No sound is heard.	Connections are incorrect, or loose.	Check all connections and make corrections. (See pages 5 and 6.)
Impossible to record.	Cassette record protect tabs are removed.	Cover holes on back edge of cassette with tape.
Hard to listen to broadcasts because of noise.	The antenna is disconnected. The loop antenna is too close to the system. The feeder/wire antenna is not properly extended and positioned.	Re-connect the antenna securely. Change the position and direction of the loop antenna. Extend feeder/wire antenna at the best reception position.
The CD sound is discontinuous.	The CD is scratched or dirty.	Clean or replace the CD.
Unable to operate the Remote.	The path between the Remote and the sensor on the Unit is blocked. The batteries are discharged.	Remove the obstruction. Replace the batteries.
The CD tray cannot be operated.	The main AC power cord is not plugged in.	Plug in the AC power plug.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
Operations are disabled.	The built-in microprocessor may malfunction due to external electrical interference.	Unplug the system then plug it back in.
The cassette carrier cannot be opened.	During tape playing, the power cord is unplugged.	Plug in the power cord and press eject.

Specifications

Amplifier

Output Power (IEC 268-3/DIN)
25 watts per channel, min. RMS, both channels driven, into 6 ohms at 1 kHz with no more than 0.9% total harmonic distortion.

25 watts per channel, min. RMS, both channels driven, into 6 ohms from 60 Hz to 20 kHz with no more than 0.9% total harmonic distortion (Canada only).

Input Sensitivity/Impedance (1 kHz)
AUX 300 mV/50 kohms

Speaker terminals
Main speakers 6 – 16 ohms

Tape deck
Frequency response
Type I (Normal): 30 – 15,000 Hz
Type II (CrO_2): 30 – 16,000 Hz

Wow and Flutter 0.09% (WRMS) (0.2% DIN)

Tuner
FM Tuner
Tuning Range 87.5 – 108.0 MHz
Usable Sensitivity 0.95 µV/75 ohms (10.8 dBf)
Signal-to-Noise Ratio (IHF-A weighted) MONO (at 85 dBf) 80 dB
STEREO (at 85 dBf) 73 dB

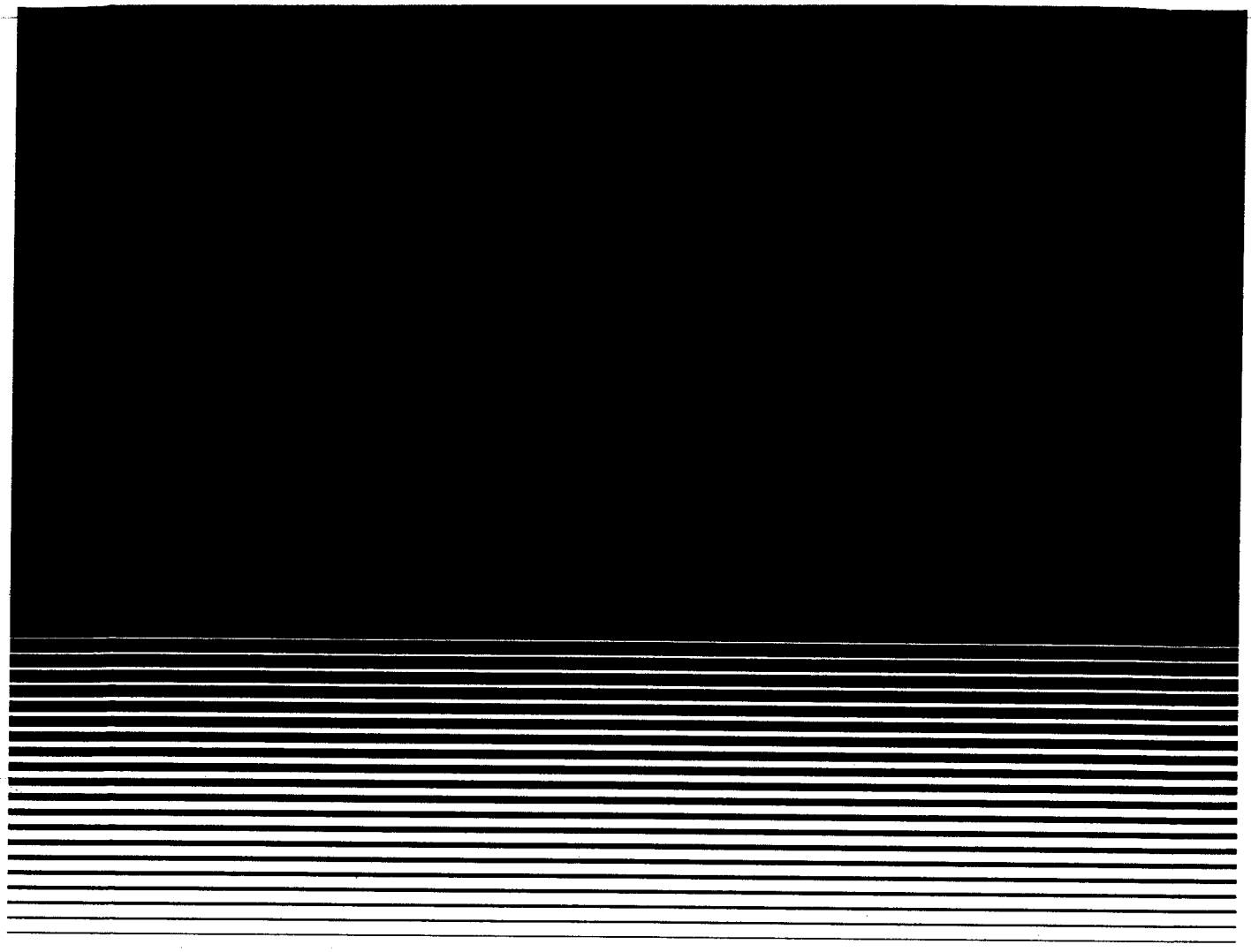
AM Tuner
MW- Tuning Range 522 – 1,629 kHz
530 – 1,710 kHz (Canada only)
LW- Tuning Range (except for Canada) 144 – 288 kHz

Compact Disc Player
Dynamic Range (1kHz) 90 dB
Signal-to-Noise Ratio 95 dB
Wow and Flutter Unmeasurable

General
Power Requirements AC 120 V ∿, 60 Hz (for Canada)
AC230V ∿, 50Hz (for the others)
Power Consumption 110 Watts, 130 V A (for Canada)
130 Watts (for the others)
13 Watts (at standby mode)
Dimensions (Approx.) 245 x 270 x 302 mm (W/H/D)
($9^{3}/_{4}$ x $10^{3}/_{4}$ x $11^{15}/_{16}$ in.)
Mass (Approx.) 6.8 kg (15 lbs)

Supplied Accessories
FM wire antenna (only for Germany) (1)
FM feeder antenna (except for Germany) (1)
AM (MW/LW) loop antenna (1)
Remote control (RM-SES200U) (1)
Batteries R6P(SUM-3)/AA(15F) (2)
Antenna adaptor (except for Germany) (1)

Design and specifications subject to change without notice.



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JVC

VICTOR COMPANY OF JAPAN, LIMITED

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